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FIG. 1

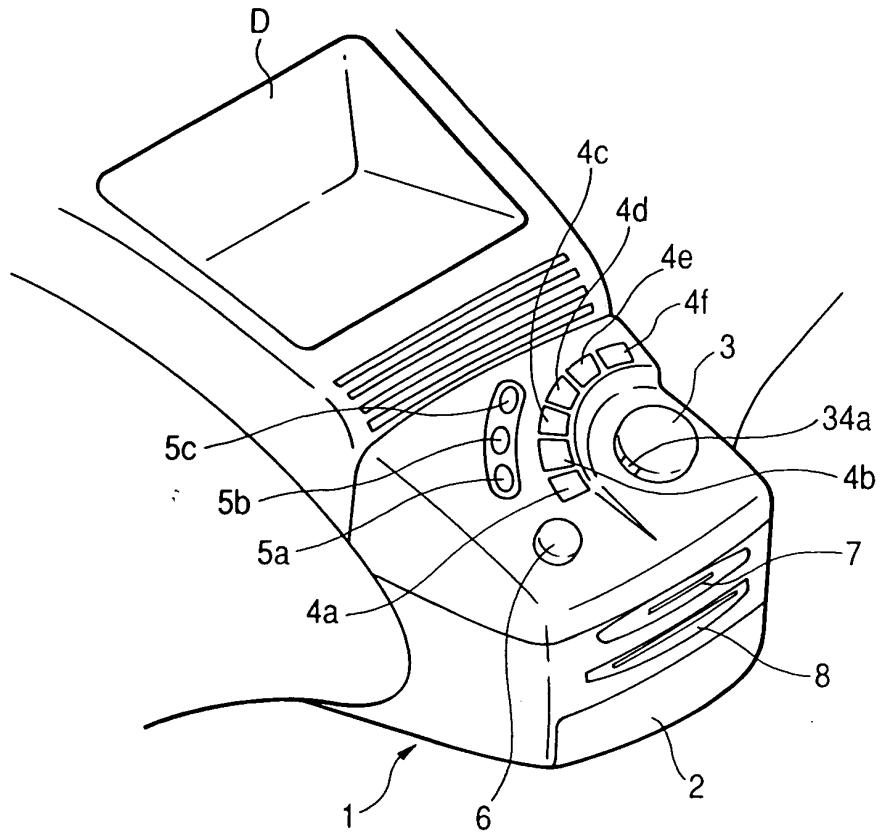
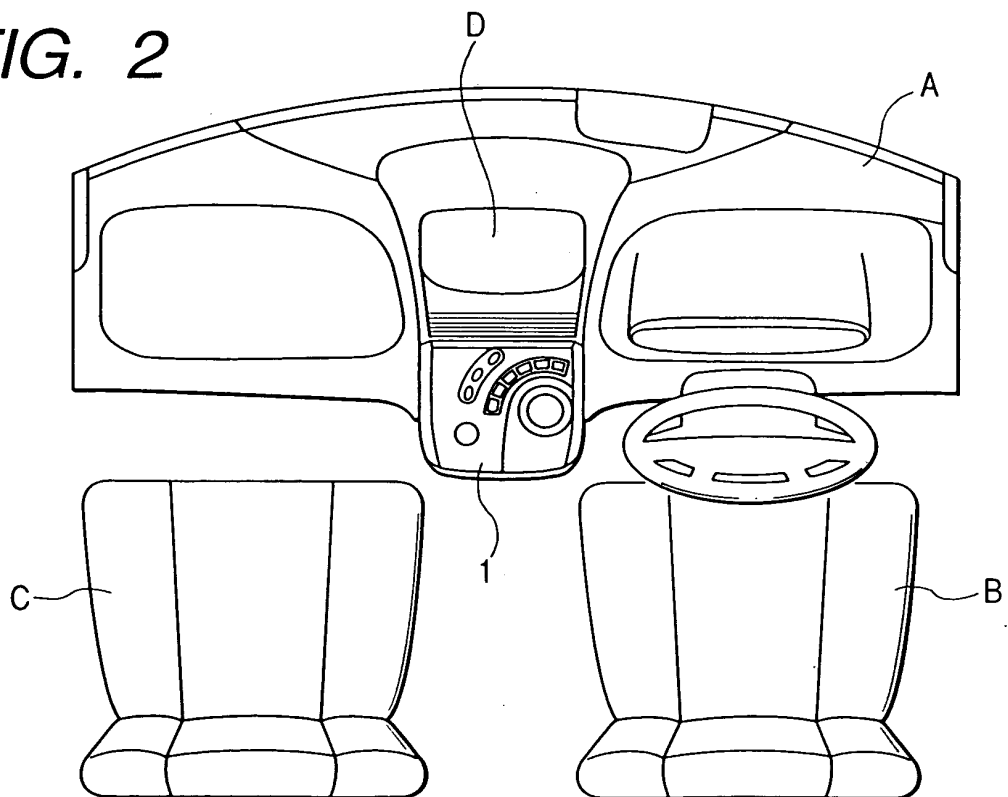
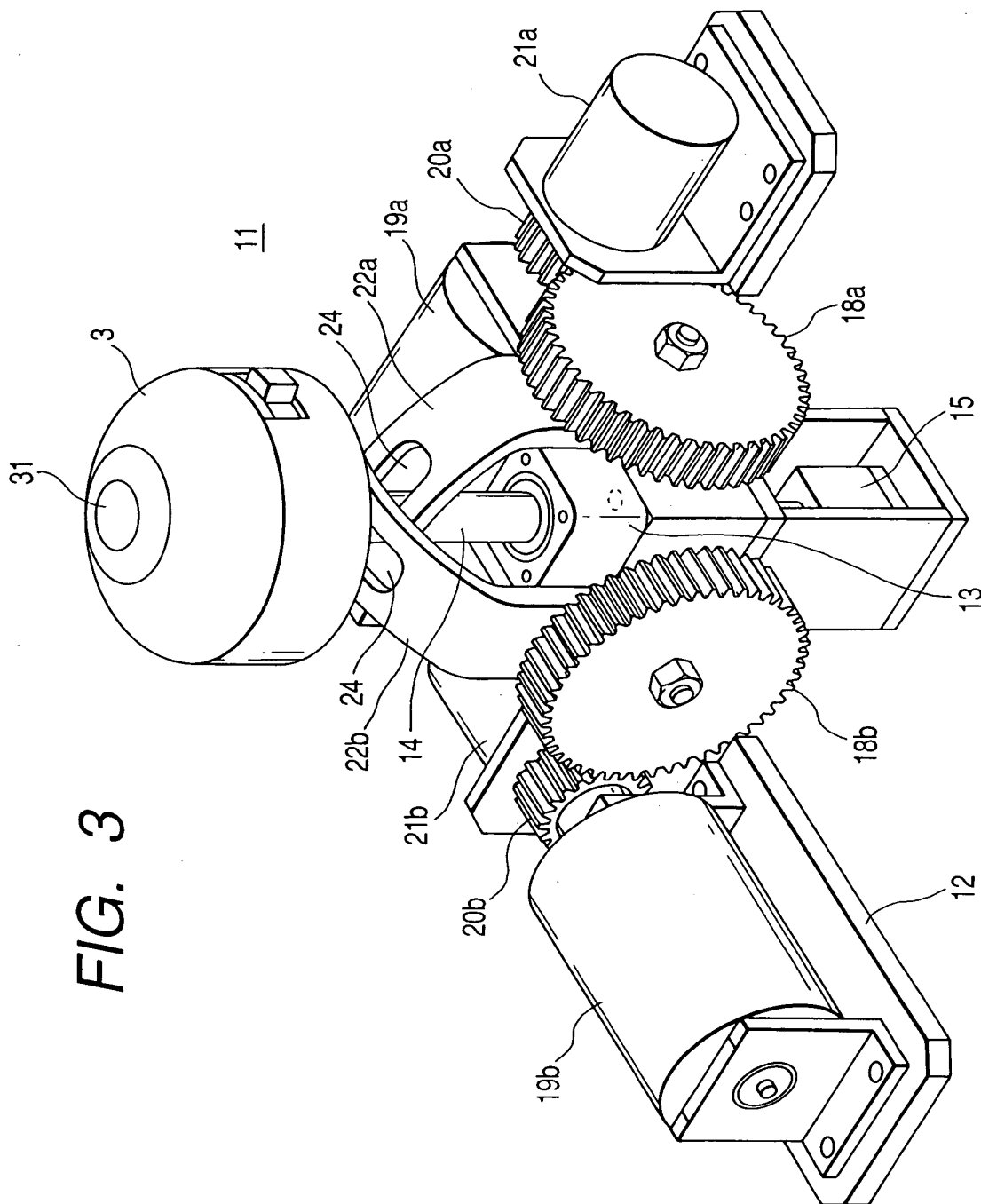


FIG. 2



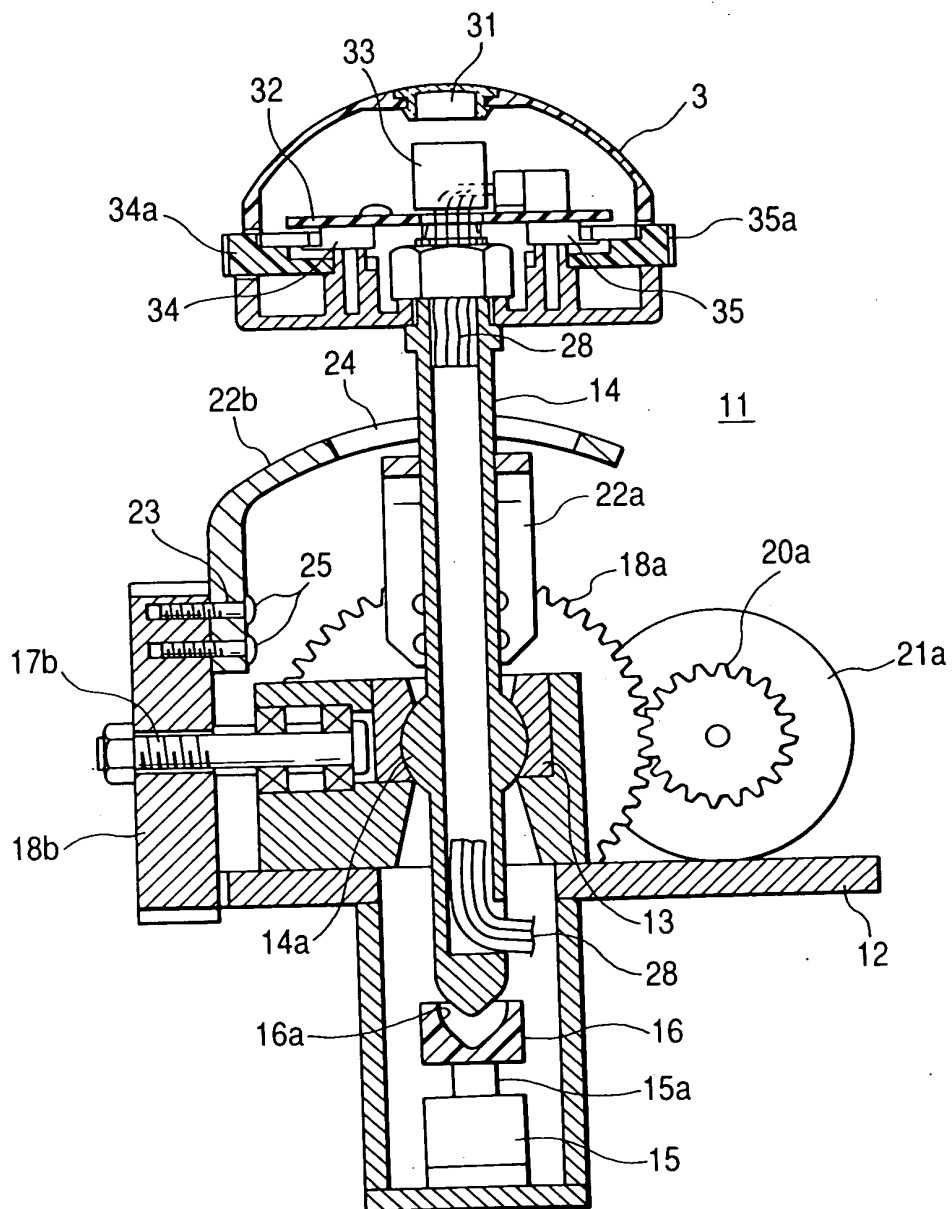
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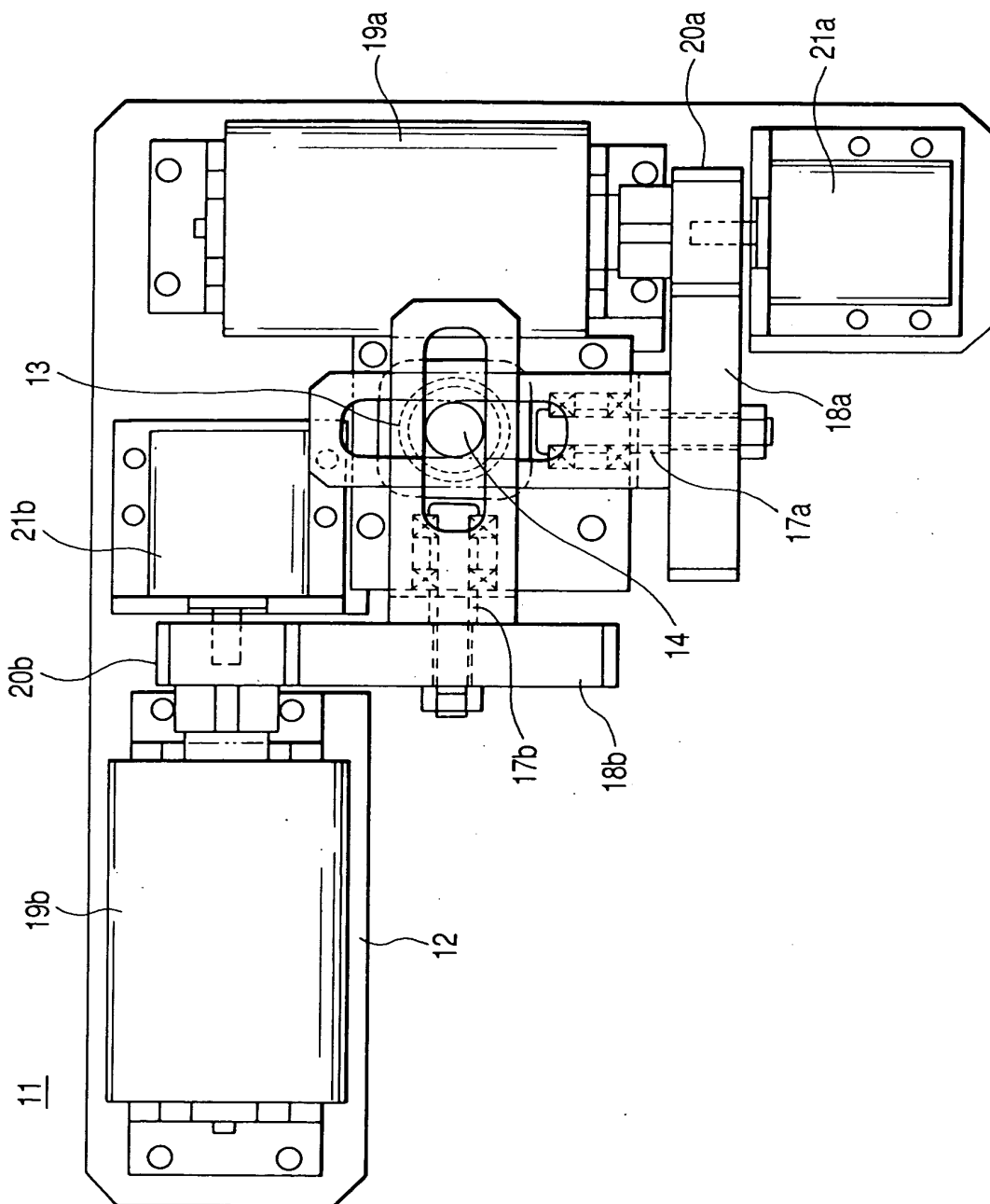
FIG. 3



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FIG. 4





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FIG. 6

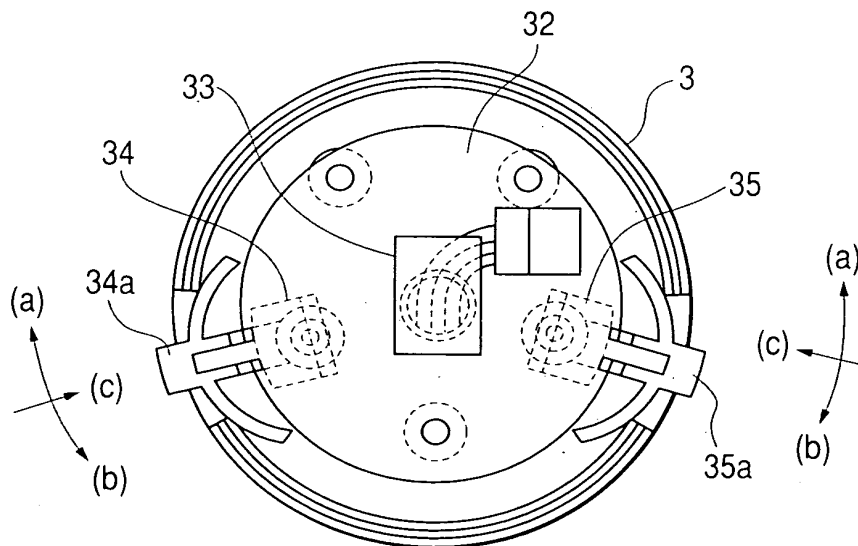


FIG. 7A

MENU

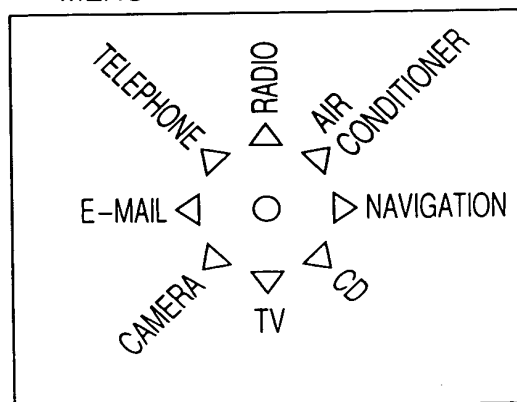


FIG. 7B

MOVABLE DIRECTIONS OF
 MANUAL MANIPULATOR

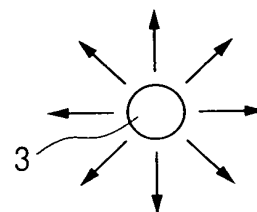


FIG. 8A

MENU

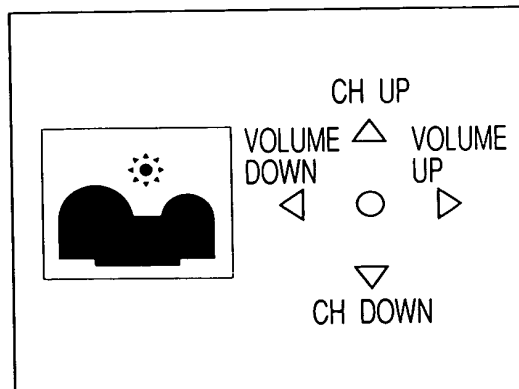


FIG. 8B

MOVABLE DIRECTIONS OF
 MANUAL MANIPULATOR

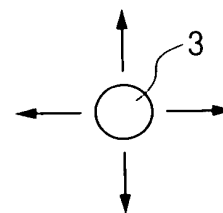


FIG. 7A

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FIG. 9

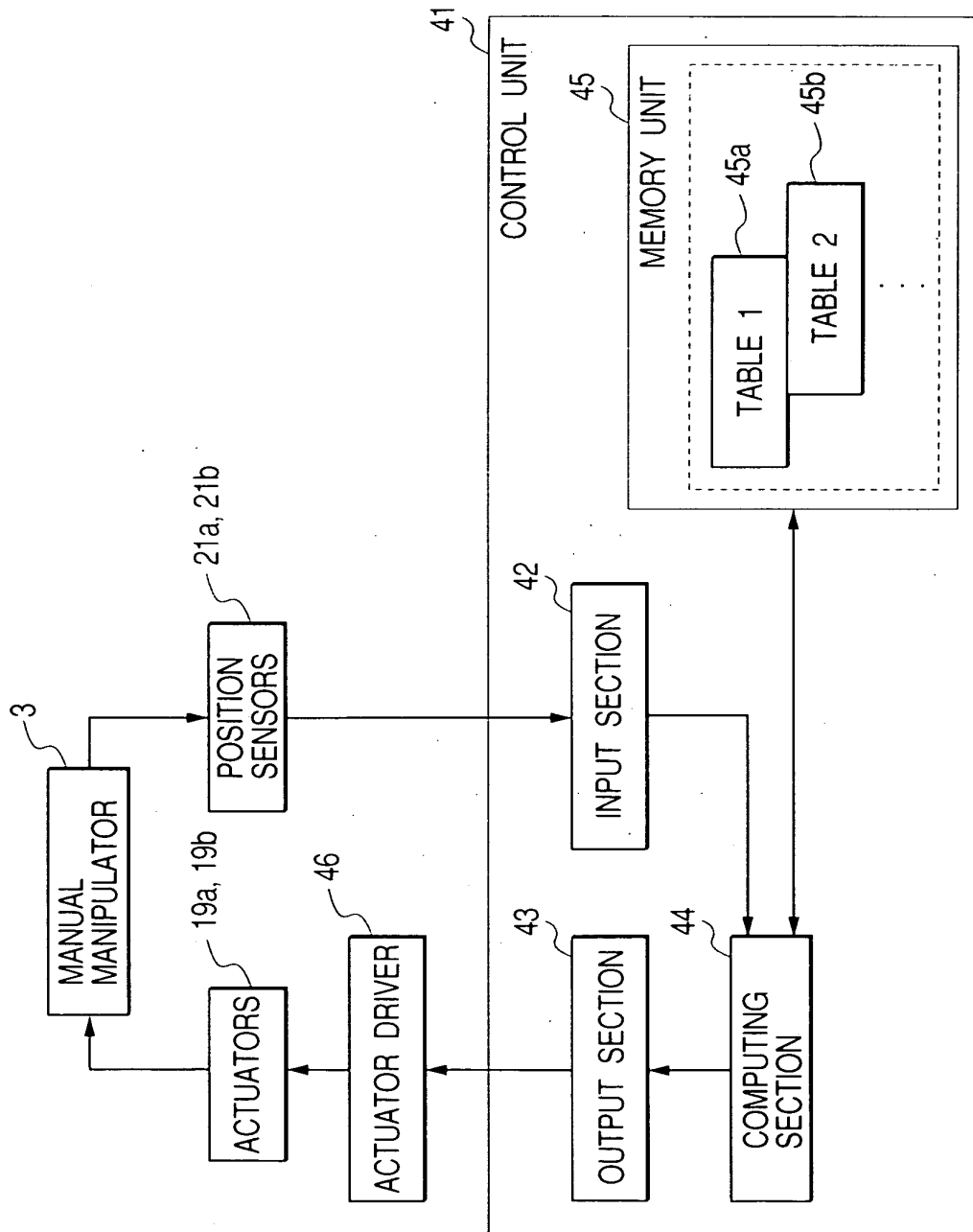


FIG. 10

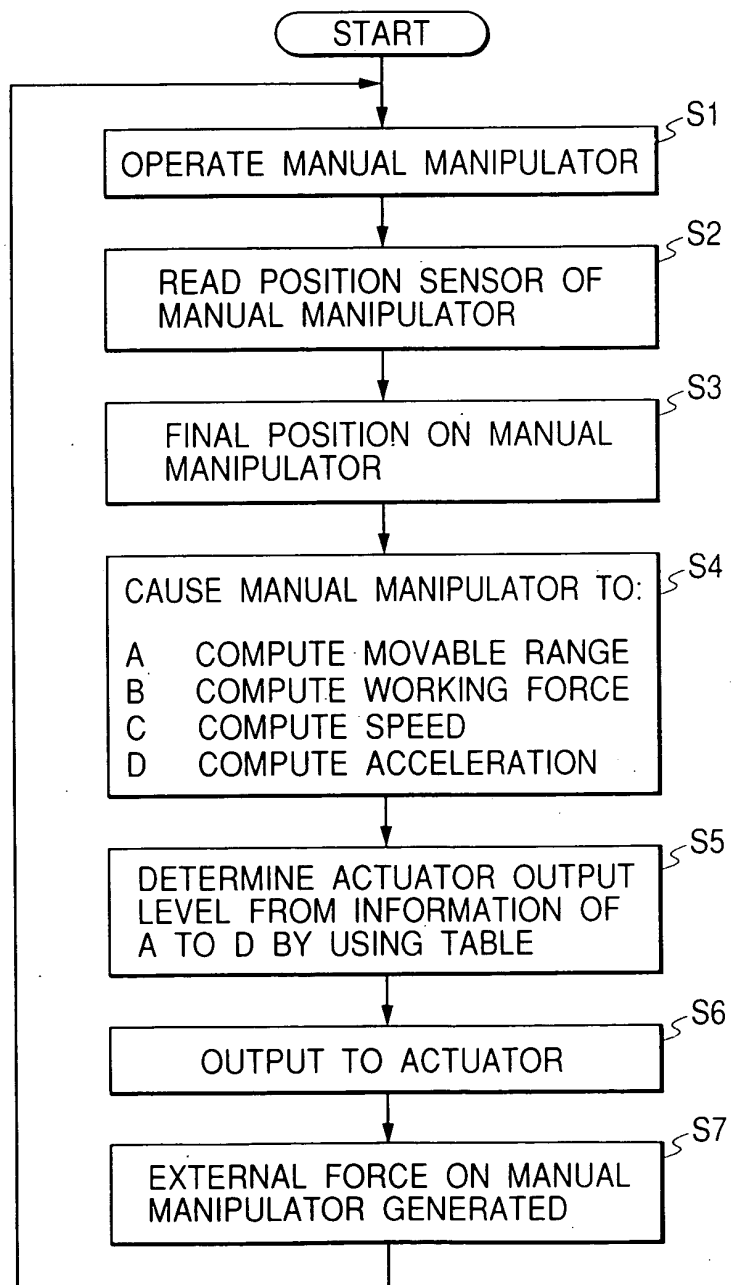
Y DIRECTION
 ↑
 +
 -

X0	X1	X2	X3	X4	X5	X6	X7	
+1 -1	+1 0	+1 0	0 0	0 0	-1 0	-1 0	-1 -1	Y7
0 -1	+1 -1	+1 0	0 0	0 0	-1 0	-1 -1	0 -1	Y6
0 -1	0 -1	+1 -1	0 0	0 0	-1 -1	0 -1	0 -1	Y5
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	Y4
0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	Y3
0 +1	0 +1	+1 +1	0 0	0 0	-1 +1	0 +1	0 +1	Y2
0 +1	+1 +1	+1 0	0 0	0 0	-1 0	-1 +1	0 +1	Y1
+1 +1	+1 0	+1 0	0 0	0 0	-1 0	-1 0	-1 +1	Y0

→
 - X DIRECTION +

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FIG. 11



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FIG. 12

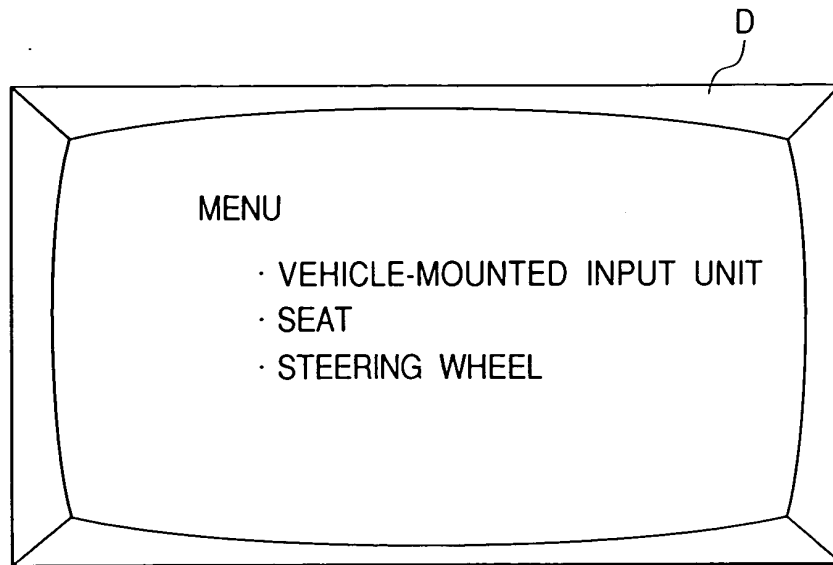
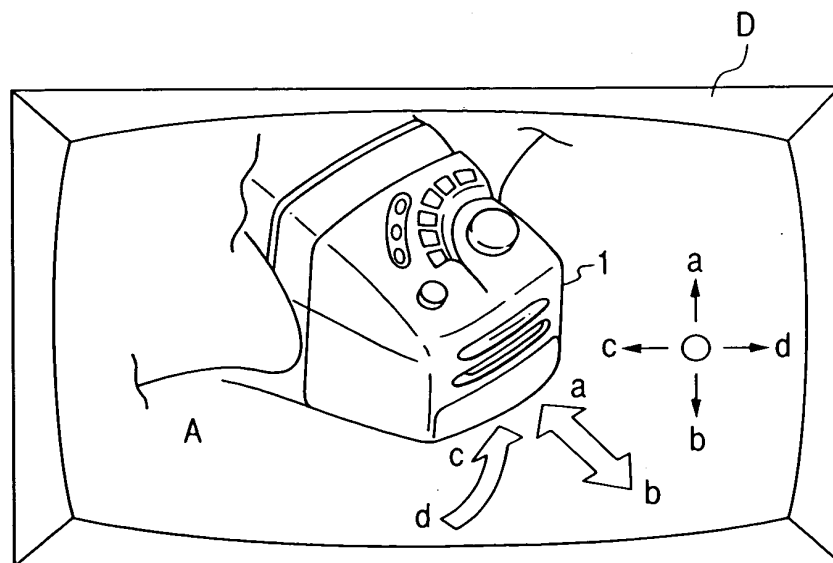
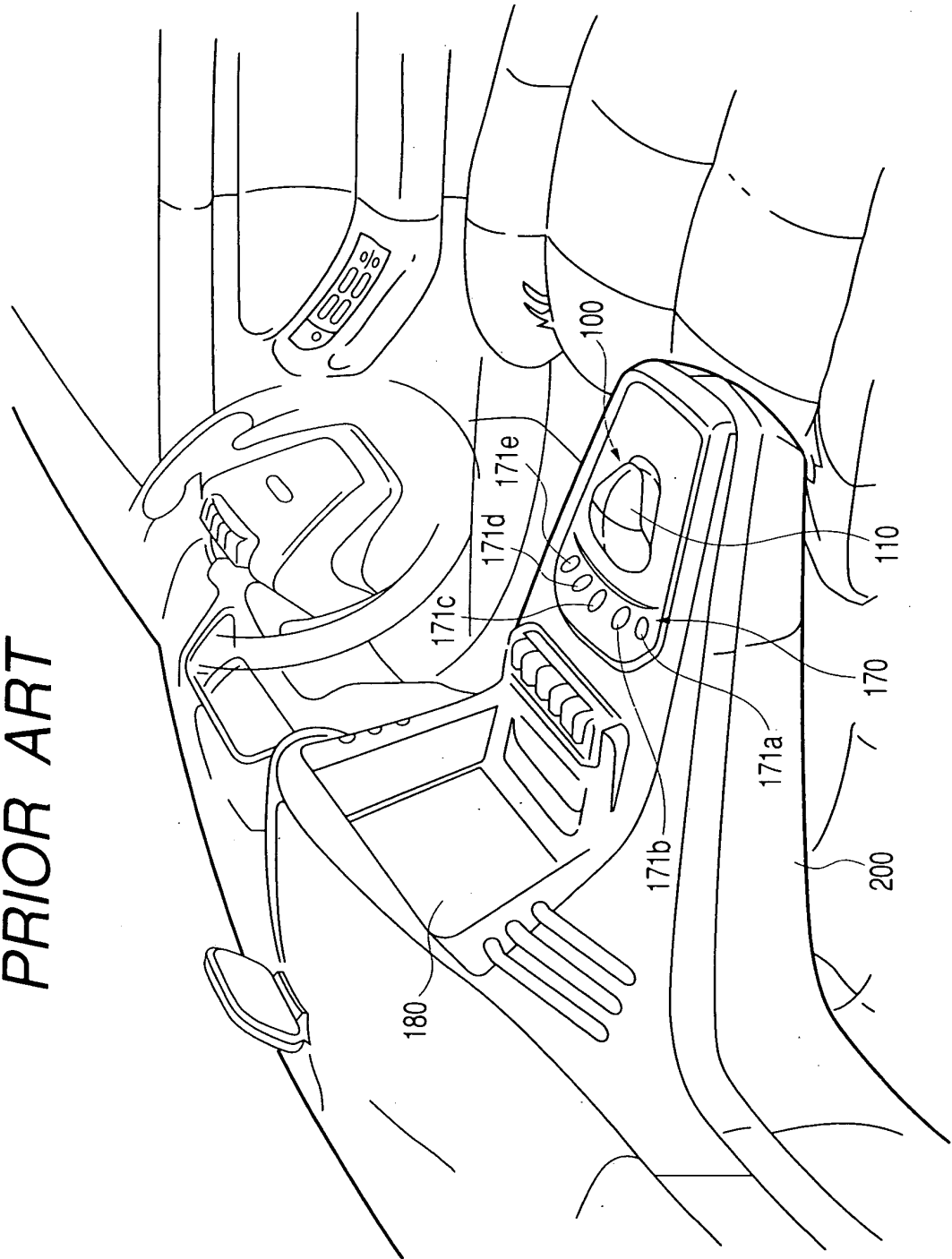


FIG. 13



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FIG. 14
PRIOR ART



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FIG. 15
PRIOR ART

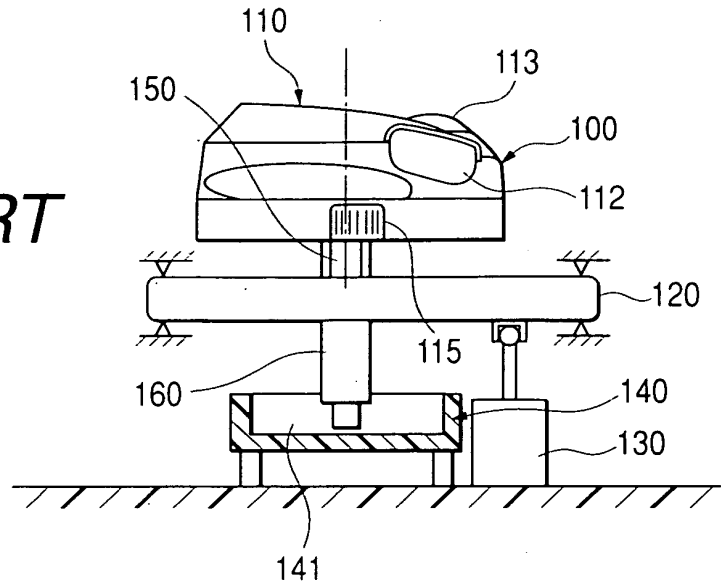


FIG. 16
PRIOR ART

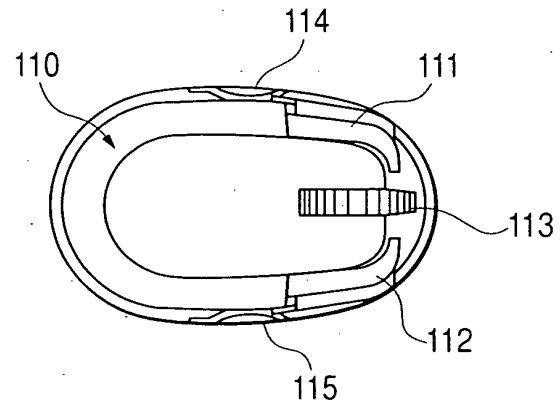


FIG. 17
PRIOR ART

